PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference TSL1832PCT	FOR FURTHER ACTION	Priority date (day/month/year) 02 October 2003 (02.10.2003)			
International application No. PCT/JP2004/014908	International filing date (day/month/year) 01 October 2004 (01.10.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant DOW CORNING TORAY CO., LTD.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total	This REPORT consists of a total of 5 sheets, including this cover sheet.			
	In the attached sheets, any reference to the international preliminary in	_	the International Searching Authority should be read as a reference ter I) instead.		
3.	This report contains indications	relating to the following item	ıs:		
	Box No. I	Basis of the report			
	Box No. Π	Priority			
	Box No. III	Non-establishment of opi	nion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention	1		
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inte	rnational application		
	Box No. VIII	Certain observations on the	ne international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).				
			Date of issuance of this report 03 April 2006 (03.04.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		ombettes	Authorized officer Yoshiko Kuwahara		

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Form PCT/IB/373 (January 2004)

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From the INTERNATIONAL SEARCHING AUTHORITY

To:

See form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 bis. 1)

Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference

FOR FURTHER ACTION

Applicant's or agent's file reference
see form PCT/ISA/220

International application No.
PCT/JP2004/014908

International Patent Classification (IPC) or both national classification and IPC
C07F7/14, C07F7/18

POR FURTHER ACTION
See paragraph 2 below
Priority date (day/month/year)
02.10.2003

Applicant DOW CORNING TORAY SILICONE CO., LTD.

1.	This opinion co	opinion contains indications relating to the following items:		
⊠ Box No. I Basis of th		Basis of the opinion		
	☐ Box No. II	Priority		
	☐ Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	☐ Box No. IV	Lack of unity of Invention		
	⊠ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	☐ Box No. VI	Certain documents cited		
	☐ Box No. VII	Certain defects in the international application		
	☐ Box No. VIII	Certain observations on the international application		

2. FURTHER ACTION

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If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and malling address of the ISA:

Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014908

	Box I	No.	l Basis of the opinion		
1.	With the la	rega Ingu	ard to the language, this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item.		
	Į;	angi	opinion has been established on the basis of a translation from the original language into the following uage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).		
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
		a	sequence listing		
		l ta	able(s) related to the sequence listing		
b. format of material:					
] ir	n written format		
] jı	n computer readable form		
c. time of filing/furnishing:					
] (contained in the international application as filed.		
] f	iled together with the international application in computer readable form.		
] f	urnished subsequently to this Authority for the purposes of search.		
3		has cop	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.		

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014908

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

1-10

Inventive step (IS)

Yes: Claims

Claims

1-10

• • •

No: Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/014908

Re Item V.

1. The following documents are referred to in this communication:

D1: EP 0 589 613 A1 D2: US 5 359 111 A

- The present application claims a process for preparing halosilylated chain hydrocarbons (claims 1-5), and a method of conducting a hydrosilation process (claims 6-10). The compound that is hydrosilated is a diene-type compound, and the process is carried out in the presence of an ether.
- Document D1, which is considered to represent the most relevant state of the art, discloses a process for preparing halosilylated chain hydrocarbons.

From this, the subject-matter of independent claims 1 and 6 differs in that an ether is used during hydrosilation process. The effect of this difference appears an improvement of the hydrosilation process as compare to a process without an ether (see examples and comparative examples in the description of the present application; higher hydrosilane reaction efficiency).

- 3.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).
- The problem to be solved by the present invention may be regarded as the provision of an improved process for preparing halosilylated chain hydrocarbons (claims 1-5), and a improved method of conducting a hydrosilation process (claims 6-10).

The solution to this problem proposed in claims 1 and 6 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons. There are teachings in the available prior art that pertain to controlling the hydrosilation of diene-type compounds (e.g. document D2 teaches the use of oxygen to control the hydrosilation process). However, there appear to be no teachings that would allow a person skilled in the art to modify the teachings of D1 so as to arrive at the present invention.